

# APPARATUS FOR INCREASE OF AIRCRAFT LIFT AND MANEUVERABILITY

## ABSTRACT OF THE DISCLOSURE

5 A morphing airfoil system includes a first airfoil having a first root, first span, first chord, and first tip. The first airfoil is attachable to an aircraft near the first root. A second  
10 airfoil has a second root, second span, second chord, and second tip. The second airfoil is attachable to the aircraft near the first root. At least one moveable connection is attached to at least one of the first airfoil and the second airfoil near their respective roots. The moveable connection is arranged to permit movement of at least one of the first airfoil and the second airfoil from a first position with their tips near each other to a second position with their tips spaced apart from each other. An endplate may connect the two airfoils near their respective tips.

